

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants

Mohammad Ghavami

Serial No.

10/084,547

Filed

February 26, 2002

For

WIDE-BAND ARRAY ANTENNA

Group A.U.

3662

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GROUP 3600

I hereby certify that this paper is being deposited this date with the U.S. Postal Service as first class mail addressed to: Assistant Commissioner for Patents, Washington,

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Jay H. Maioli

27,213

Date Reg. No. June 19, 2002

> June 19, 2002 1185 Avenue of the Americas New York, NY 10036

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Prior to the initial examination of the above-identified application, Applicants respectfully request that the application be amended as follows.

IN THE ABSTRACT OF THE DISCLOSURE

Please amend the Abstract by rewriting same to read as follows.

A wide-band array antenna using a single real-valued multiplier for each antenna element is simple in construction and suitable for wide-band code division multiple access (WCDMA) mobile communication systems. A rectangular array antenna is formed by N \times M antenna elements. Each antenna element has a frequency dependent gain which is the same for all elements. Each antenna element is connected to said single real-valued multiplier with a single